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<b>Effective on 12/08/2004.</b> <b>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b> <h2 style="margin: 0;">FEE TRANSMITTAL</h2> <h3 style="margin: 0;">For FY 2005</h3>		<b>Complete if Known</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	10/516,502-Conf. #5129
		Filing Date	December 2, 2004
		First Named Inventor	Hannu PÄÄRNI
		Examiner Name	Not Yet Assigned
		Art Unit	N/A
<b>TOTAL AMOUNT OF PAYMENT</b> (\$) 130.00		Attorney Docket No.	0365-0615PUS1

<b>METHOD OF PAYMENT</b> (check all that apply)	
<input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> None <input type="checkbox"/> Other (please identify): _____	
<input type="checkbox"/> Deposit Account            Deposit Account Number: <u>02-2448</u> Deposit Account Name: <u>Birch, Stewart, Kolasch &amp; Birch, LLP</u>	
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)	
<input type="checkbox"/> Charge fee(s) indicated below <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee	
<input checked="" type="checkbox"/> Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 <input checked="" type="checkbox"/> Credit any overpayments	

<b>FEE CALCULATION</b>							
<b>1. BASIC FILING, SEARCH, AND EXAMINATION FEES</b>							
Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	
<b>2. EXCESS CLAIM FEES</b>							
<b>Fee Description</b>							<b>Small Entity Fee (\$)</b>
Each claim over 20 (including Reissues)							50
Each independent claim over 3 (including Reissues)							200
Multiple dependent claims							360
<b>Total Claims</b>		<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	<b>Multiple Dependent Claims</b>		
15		- 20 =	x	=	<b>Fee (\$)</b>		<b>Fee Paid (\$)</b>
<b>Indep. Claims</b>		<b>Extra Claims</b>	<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>			
3		- 3 =	x	=			
<b>3. APPLICATION SIZE FEE</b>							
If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).							
<b>Total Sheets</b>	<b>Extra Sheets</b>	<b>Number of each additional 50 or fraction thereof</b>			<b>Fee (\$)</b>	<b>Fee Paid (\$)</b>	
	- 100 =	/50	(round up to a whole number) x			=	
<b>4. OTHER FEE(S)</b>							<b>Fees Paid (\$)</b>
Non-English Specification, \$130 fee (no small entity discount)							
Other (e.g., late filing surcharge): 1051 Surcharge-Late oath or declaration							130.00

<b>SUBMITTED BY</b>			
Signature		Registration No. (Attorney/Agent)	29,680
Name (Print/Type)	Michael K. Mutter # 39,491	Telephone	(703) 205-8000
		Date	May 24, 2005

05/31/2005 GFREY1 00000055 10516502

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Application No.: 10/516,502

Docket No.: 0365-0615PUS1

Docket No.: 0365-0615PUS1  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Hannu PÄÄRNI et al.

Application No.: 10/516,502

Confirmation No.: 5129

Filed: December 2, 2004

Art Unit: N/A

For: AN ACOUSTICALLY ACTIVE ELEMENT  
FORMED IN A MULTI-LAYER CIRCUIT-  
BOARD STRUCTURE, A METHOD FOR  
FORMING ACOUSTICALLY ACTIVE  
ELEMENT IN A MULTI-LAYER CIRCUIT-  
BOARD STRUCTURE, AND A MULTI-  
LAYER CIRCUIT-BOARD STRUCTURE

Examiner: Not Yet Assigned

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Notification of Missing Requirements dated April 29, 2005,  
Applicant respectfully submits:

☒ Attached is a copy of the Notification of Missing Requirements (371 Formalities  
Letter).

☒ Attached is the Executed Declaration and Power of Attorney ☒ Original ☐  
Photocopy.

☐ The specification attached to the executed Declaration and Power of Attorney is a  
true copy of the specification that was filed in the U.S. Patent and Trademark Office on

December 2, 2004, including any amendments thereto (if applicable) filed on even date therewith.

☐ The undersigned hereby declares that "Attorney Docket No. 0365-0615PUS1" on page 1 of the attached inventors' Declaration corresponds to Appl. No. 10/516,502 filed December 2, 2004 entitled

☐ Attached is an English language translation of the above-identified application that was filed in a foreign language, which should be used as the copy for examination purposes.

See the attached Translator's Verification; or

The undersigned states that the English translation attached hereto is a true and correct translation of the application as originally filed in a foreign language.

☐ Attached are @@@ sheet(s) of drawings. Please substitute these replacement drawings for the corresponding @@@ sheet(s) of drawings on file in the above-identified application.

☐ Attached are substitute claims commencing on a separate sheet in accordance with 37 C.F.R. § 1.75(h).

☐ Attached is a substitute abstract commencing on a separate sheet in accordance with 37 C.F.R. § 1.72(b).

☐ Attached is a substitute specification that complies with 37 C.F.R. § 1.52. The substitute specification does not contain new matter.

☐ Attached is a preliminary amendment.

Application No.: 10/516,502

Docket No.: 0365-0615PUS1

☐ Applicant claims small entity status under 37 C.F.R. § 1.27.

☒ Submitted concurrently herewith under separate cover for recording is an Assignment.


☐ Attached is a Petition for Extension of Time.

☒ Attached hereto is the fee transmittal listing the required fees.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to our Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Dated: May 24, 2005

Respectfully submitted,

By  #39,491  
for Michael K. Mutter  
Registration No.: 29,680  
BIRCH, STEWART, KOLASCH & BIRCH, LLP  
8110 Gatehouse Rd  
Suite 100 East  
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Falls Church, Virginia 22040-0747  
(703) 205-8000  
Attorney for Applicant

Attachment(s)



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/516,502	Hannu Paarni	0365-0615PUS1

INTERNATIONAL APPLICATION NO.
PCT/FI03/00423

02292  
BIRCH STEWART KOLASCH & BIRCH  
PO BOX 747  
FALLS CHURCH, VA 22040-0747

I.A. FILING DATE	PRIORITY DATE
05/28/2003	06/04/2002

*DOCKETED*  
*Perfect: 6/29/05*

CONFIRMATION NO. 5129  
371 FORMALITIES LETTER



Date Mailed: 04/29/2005

### NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 12/02/2004
- Copy of the International Search Report filed on 12/02/2004
- Information Disclosure Statements filed on 12/02/2004
- U.S. Basic National Fees filed on 12/02/2004
- Priority Documents filed on 12/02/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

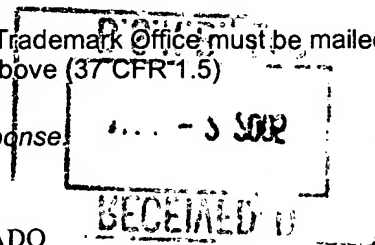
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.



WINSTON M ALVARADO

Telephone: (703) 308-9140 EXT 206

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/516,502	PCT/FI03/00423	0365-0615PUS1

FORM PCT/DO/EO/905 (371 Formalities Notice)